# 2004 Pregnancy Nutrition Surveillance (1) North Dakota

**Summary of Demographic Indicators** (2)

Total Records	Number	%
Complete Records Prenatal Records Postpartum Records	2,152 457 633	66.4 14.1 19.5
Total Records Accepted	3,242	

Source of Data	Number	%
WIC	3,242	100.0
Maternal Health	0	0.0
Other	0	0.0
Total	3,242	100.0
Excluded Unknown: 0 0.0		

Race/Ethnic Distribution	Number %
White, Not Hispanic Black, Not Hispanic Hispanic American Indian/Alaskan Native Asian/Pacific Islander All Other	2,404 74.2 92 2.8 139 4.3 567 17.5 40 1.2 0 0.0
Total	3,242 100.0
Excluded Unknown: 0 0.0	

Age Distribution	Number %	
< 15 Years 15 - 17 Years 18 - 19 Years 20 - 29 Years 30 - 39 Years >= 40 Years	8 0.2 140 4.3 429 13.3 2,102 65.1 523 16.2 28 0.9	
Total	3,230 100.0	
Excluded Unknown: 12 0.4		

Education Distribution	Number %
< High School High School > High School	651 20.1 1,326 40.9 1,264 39.0
Total  Excluded Unknown: 1 0.0	3,241 100.0

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% Poverty Level	Number %
0 - 50	1,104 34.2
51 - 100	688 21.3
101 - 130	512 15.8
131 - 150	312 9.7
151 - 185	424 13.1
186 - 200	69 2.1
> 200	122 3.8
Adjunctive Eligibility	0 0.0
Total	3,231 100.0
Excluded Unknown: 11 0.3	

Program Participation (3)	Number %
WIC Food Stamps Medicaid TANF	2,609 100.0 2,609 37.4 2,609 58.0 2,609 7.1
Excluded Unknown: WIC: Food Stamps: Medicaid: TANF:	0 0.0 0 0.0 0 0.0 0 0.0

Migrant Status	Number %
Yes No	36 1.1 3,206 98.9
Total	3,242 100.0
Excluded Unknown: 0 0.0	

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Prenatal program participation.



Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 2C 2004 Pregnancy Nutrition Surveillance North Dakota Summary of Health Indicators

Summary of Health Indicators (2)					
	North Da Prevale		Nation Prevaler (Prior Ye	nce	
	Number	%	Number	%	
Prepregnancy BMI (3)					
Underweight	3,068	10.3	678,999	12.1	
Normal Weight	3,068	44.8	678,999	44.9	
Overweight	3,068	15.0	678,999	14.5	
Obese	3,068	30.0	678,999	28.5	
Maternal Weight Gain (4) Less Than Ideal Ideal	2,167 2,167	14.4 36.1	579,271 579,271	25.2 30.6	
Greater Than Ideal	2,167	49.5	579,271	44.2	
Anemia (Low Hb/Hct) (5)  1st Trimester 2nd Trimester 3rd Trimester Postpartum	1,130 796 419 1,886	4.9 4.3 24.6 30.4	202,274 190,275 99,365 253,236	6.3 9.9 30.3 29.5	
Parity (6)					
0 1 2 ≥3	3,242 3,242 3,242 3,242	43.0 28.5 16.0 12.5	668,038 668,038 668,038 668,038	46.1 27.2 15.4 11.3	
Interpregnancy Interval					
< 6 Months	1,724	17.3	375,516	13.3	
6 - <18 Months	1,724	30.7	375,516	27.0	
≥18 Months	1,724	51.9	375,516	59.6	

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI < 19.8), normal weight (BMI 19.9 to 26.0), overweight (BMI >26.0 to 29.0), obese (BMI >29.0).
- (4) Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).
- (5) Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.
- (6) Number of times a woman has given birth to an infant 20 or more weeks gestation.
- Percentages are not calculated if <100 records are available for analysis after exclusions.



# Table 2C 2004 Pregnancy Nutrition Surveillance North Dakota Summary of Health Indicators (1)

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Summary of Health Indicators (2)						
		North Dakota Prevalence		al nce ar)		
	Number	%	Number	%		
Medical Care						
1st Trimester No Care	2,782 2,782	87.0 1.9	440,121 440,121	77.1 8.9		
WIC Enrollment  1st Trimester 2nd Trimester 3rd Trimester Postpartum (3)	2,834 2,834 2,834 2,834	42.7 29.7 18.0 9.7	695,912 695,912 695,912 695,912	27.6 30.1 23.6 18.7		
Smoking 3 Months Prior to Pregnancy During Pregnancy Last 3 Months of Pregnancy Postpartum	2,901 2,534 2,452 0	47.7 29.4 25.1	617,683 539,808 483,916 476,815	29.1 18.5 18.9 19.8		
Smoking Changes (4) Quit Smoking by First Prenatal Visit Quit Smoking by First Prenatal Visit and Stayed Off Cigarettes	1,225 894	40.5 36.5	156,585 121,114	39.8 31.9		
Smoking in Household During Pregnancy Postpartum	2,511 2,376	32.8 28.1	294,627 331,615	25.5 22.3		
Drinking 3 Months Prior to Pregnancy Last 3 Months of Pregnancy	422 2,448	1.7 0.1	458,975 479,180	9.4 1.5		

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Women who initially enrolled in WIC during the postpartum period.

<sup>(4)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 2C 2004 Pregnancy Nutrition Surveillance North Dakota Summary of Health Indicators

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Summary of Health Indicators (2)					
	North Dakota Prevalence		National Prevalence (Prior Year)		
	Number	%	Number	%	
Birthweight (3) Very Low Low Normal High	2,362 2,362 2,362 2,362	0.9 4.7 84.3 10.1	616,163 616,163 616,163 616,163	1.1 7.0 84.5 7.5	
Preterm (4) Full term Low Birth Weight (5) Multiple Births	2,049 1,743 2,715	11.8 1.8 1.8	599,892 502,591 666,100	11.3 3.8 1.4	
Breastfeeding Ever Breastfed	2,436	54.9	616,123	55.7	

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Very low birth weight (<1500 g), low birth weight (1500 - <2500 g), normal birth weight (2500 - <4000 g), high birth weight (>4000 g).

<sup>(4) &</sup>lt;37 weeks gestation.

<sup>(5) 37</sup> or more weeks gestation and <2500 g.

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# Comparison of Racial and Ethnic Distribution by Contributor to Nation

Comparison of Racial and Ethnic Distribution (2)							
Number Included in	White, Not Hispanic	Black, Not Hispanic	Hispanic	American Indian/Alaskan Native	Asian/Pacific Islander	All Other/Unknown	
	Analysis	%	%	%	%	%	%
North Dakota	3,242	74.2	2.8	4.3	17.5	1.2	0.0
Nation (Prior Year)	747,174	48.7	24.4	21.2	1.3	1.9	2.5



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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## Comparison of Age Distribution by Contributor to Nation

	Comparison of Age Distribution (2)											
	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %				
North Dakota	3,242	0.2	4.3	13.2	64.8	16.1	0.9	0.4				
Nation (Prior Year)	747,174	0.4	6.9	13.4	60.1	17.9	1.3	0.0				



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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#### **Comparison of Maternal Health Indicators by Contributor to Nation**

	Comparison of Maternal Health Indicators (2)											
	Pre	Prepregnancy BMI (3)			Weight Gai	n	Anemia (Low Hb/Hct) (5)					
			Over- weight		< Ideal	> Ideal	3rd Tri	mester	Postpa	artum		
	Number	%	%	Number	%	%	Number	%	Number	%		
North Dakota	3,068	10.3	45.0	2,167	14.4	49.5	419	24.6	1,886	30.4		
Nation (Prior Year)	678,999	12.1	43.0	579,271	25.2	44.2	99,365	30.3	253,236	29.5		



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 6C 2004 Pregnancy Nutrition Surveillance (1) North Dakota Comparison of Maternal Behavioral Indicators by Contributor to Nation

Compari	son of Ma	aternal Beha	avioral In	dicators	(2)
		Medical Care	WIC Enro	ollment	
		1st Trimester	No Care	1st Trin	nester
	Number	%	%	Number	%
North Dakota	2,782	87.0	1.9	2,834	42.7
Nation (Prior Year)	440,121	77.1	8.9	695,912	27.6



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<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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# **Comparison of Smoking Indicators by Contributor to Nation**

	Comparison of Smoking Indicators (2)											
		Smo	king		Quit Sm By First P			Smoking in	Household			
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy		Visit and Stayed Off Cigarettes (3)		Prenatal		Postpartum			
	Number	%	Number	%	Number	%	Number	%	Number	%		
North Dakota	2,901	47.7	2,452	25.1	894	36.5	2,511	32.8	2,376	28.1		
Nation (Prior Year)	617,683	29.1	483,916	18.9	121,114	31.9	294,627	25.5	331,615	22.3		



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 8C 2004 Pregnancy Nutrition Surveillance (1) North Dakota Comparison of Infant Health Indicators by Contributor to Nation

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	Comparison of Infant Health Indicators (2)											
	Birthweight			Preterm (5)		Full Term LBW (6)		Ever Breastfed				
		Low (3)	High (4)									
	Number	%	%	Number	%	Number	%	Number	%			
North Dakota	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9			
Nation (Prior Year)	616,163	8.0	7.5	599,892	11.3	502,591	3.8	616,123	55.7			

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

 <sup>(6) 37</sup> or more weeks gestation and <2500 g.</li>
 Percentages are not calculated if <100 records are available for analysis after exclusions.</li>

# Table 9C 2004 Pregnancy Nutrition Surveillance (1) North Dakota Maternal Health Indicators by Race/Ethnicity, Age, or Education

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Ma	ternal He	alth Indi	cators by	/ Race/E	thnicity	, Age, or	Education	on <sup>(2)</sup>		
	Pre	epregnancy (3)	ВМІ	Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trimester		Postpartum	
	Number	%	%	Number	%	%	Number	%	Number	%
Race/Ethnicity										
White, Not Hispanic	2,267	10.2	45.1	1,640	14.1	48.8	299	21.7	1,426	27.9
Black, Not Hispanic	83	*	*	51	*	*	18	*	51	*
Hispanic	133	12.0	36.8	65	*	*	18	*	58	*
American Indian/Alaskan Native	549	9.8	49.2	387	12.4	56.8	77	*	340	35.6
Asian/Pacific Islander	36	*	*	24	*	*	7	*	11	*
All Other/Unknown	0	*	*	0	*	*	0	*	0	*
Total	3,068	10.3	45.0	2,167	14.4	49.5	419	24.6	1,886	30.4
Age										
< 15 Years	8	*	*	6	*	*	1	*	7	*
15 - 17 Years	138	24.6	13.8	93	*	*	13	*	88	*
18 - 19 Years	409	15.2	31.1	286	14.7	55.9	60	*	250	26.8
20 - 29 Years	1,987	9.1	46.9	1,389	13.3	48.8	272	25.7	1,217	30.3
30 - 39 Years	488	7.0	57.6	364	17.0	48.1	70	*	307	33.2
>= 40 Years	26	*	*	18	*	*	1	*	17	*
Unknown	12	*	*	11	*	*	2	*	0	*
Total	3,068	10.3	45.0	2,167	14.4	49.5	419	24.6	1,886	30.4
Education										
< High School	605	15.0	36.0	403	14.9	49.6	92	*	380	38.9
High School	1,268	9.7	46.7	899	14.7	48.7	175	23.4	802	27.9
> High School	1,194	8.4	47.7	865	13.8	50.3	152	19.7	704	28.6
Unknown	1	*	*	0	*	*	0	*	0	*
Total	3,068	10.3	45.0	2,167	14.4	49.5	419	24.6	1,886	30.4

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 10C 2004 Pregnancy Nutrition Surveillance North Dakota Maternal Behavioral Indicators by Race/Ethnicity, Age, or Education

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Maternal Behavio A	ral Indica ge, or Ed	tors by ucation	Race/Eth	nicity,	(2)
	N	Medical Ca	are	WIC Enr	ollment
	1st Trimester No Car			1st Trin	nester
	Number	%	%	Number	%
Race/Ethnicity					
White, Not Hispanic	2,095	90.0	1.6	2,079	42.9
Black, Not Hispanic	72	*	*	83	*
Hispanic	95	*	*	124	46.8
American Indian/Alaskan Native	488	74.2	3.5	518	42.3
Asian/Pacific Islander	32	*	*	30	*
All Other/Unknown	0	*	*	0	*
Total	2,782	87.0	1.9	2,834	42.7
Age					
< 15 Years	8	*	*	8	*
15 - 17 Years	120	75.0	1.7	124	43.5
18 - 19 Years	356	85.7	2.5	382	45.3
20 - 29 Years	1,786	89.0	1.8	1,835	43.4
30 - 39 Years	474	84.8	2.1	452	38.3
>= 40 Years	26	*	*	24	*
Unknown	12	*	*	9	*
Total	2,782	87.0	1.9	2,834	42.7
Education					
< High School	542	78.6	2.6	583	41.9
High School	1,148	88.2	1.5	1,165	44.3
> High School	1,091	90.0	2.1	1,085	41.3
Unknown	1	*	*	1	*
Total	2,782	87.0	1.9	2,834	42.7



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data for behavioral indicators, and data with errors for behavioral and demographic indicators.

Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 11C 2004 Pregnancy Nutrition Surveillance North Dakota Smoking Indicators by Race/Ethnicity, Age, or Education

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	Smoking	g Indica	tors by Ra	ce/Ethn	icity, Age	, or Edu	cation (2)				
		Smo	oking		Quit Sm By First F	Prenatal	Smoking in Household				
	3 Months Prior to Pregnancy		Last 3 Months of Pregnancy		Visit and Stayed Off Cigarettes (3)		Prenatal		Postpartum		
	Number	%	Number	%	Number	%	Number	%	Number	%	
Race/Ethnicity											
White, Not Hispanic	2,153	46.7	1,862	23.7	639	36.9	1,828	32.0	1,795	29.4	
Black, Not Hispanic	79	*	65	*	8	*	74	*	64	*	
Hispanic	122	21.3	69	*	14	*	112	33.0	68	*	
American Indian/Alaskan Native	517	63.4	427	37.5	228	32.0	476	39.3	422	27.5	
Asian/Pacific Islander	30	*	29	*	5	*	21	*	27	*	
All Other/Unknown	0	*	0	*	0	*	0	*	0	*	
Total	2,901	47.7	2,452	25.1	894	36.5	2,511	32.8	2,376	28.1	
Age											
< 15 Years	8	*	6	*	1	*	8	*	6	*	
15 - 17 Years	122	59.0	98	*	51	*	110	65.5	93	*	
18 - 19 Years	388	54.9	313	23.6	139	40.3	351	42.7	304	31.3	
20 - 29 Years	1,881	48.7	1,581	25.7	592	37.2	1,619	30.9	1,530	27.6	
30 - 39 Years	466	37.3	419	23.6	105	25.7	394	22.6	408	21.6	
>= 40 Years	25	*	24	*	2	*	21	*	24	*	
Unknown	11	*	11	*	4	*	8	*	11	*	
Total	2,901	47.7	2,452	25.1	894	36.5	2,511	32.8	2,376	28.1	
Education											
< High School	591	60.2	458	37.1	232	30.2	526	46.6	448	42.0	
High School	1,197	53.6	1,012	28.0	414	34.5	1,040	34.8	976	28.9	
> High School	1,112	34.7	982	16.5	248	45.6	944	22.8	952	20.8	
Unknown	1	*	0	*	0	*	1	*	0	*	
Total	2,901	47.7	2,452	25.1	894	36.5	2,511	32.8	2,376	28.1	



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data for smoking indicators, and data with errors for smoking and demographic indicators.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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Infant Health Indicators by Race/Ethnicity, Age, or Education

	E	Birthweight		Prote	Preterm		Full Term LBW		eastfed
		on thive ignit		(5		(6)		Evol Broadiloa	
		Low (3)	High (4)	,	,	( )			
	Number	%	%	Number	%	Number	%	Number	%
Race/Ethnicity									
White, Not Hispanic	1,861	5.6	9.9	1,600	11.7	1,361	1.8	1,917	57.2
Black, Not Hispanic	63	*	*	58	*	53	*	65	*
Hispanic	75	*	*	64	*	52	*	78	*
American Indian/Alaskan Native	337	5.9	13.6	309	12.6	263	1.9	348	34.8
Asian/Pacific Islander	26	*	*	18	*	14	*	28	*
All Other/Unknown	0	*	*	0	*	0	*	0	*
Total	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9
Age									
< 15 Years	6	*	*	6	*	5	*	6	*
15 - 17 Years	99	*	*	88	*	72	*	101	44.6
18 - 19 Years	300	4.0	7.0	261	10.7	225	1.3	306	51.6
20 - 29 Years	1,527	4.8	10.0	1,322	10.3	1,141	1.7	1,581	55.7
30 - 39 Years	400	4.8	14.0	349	17.5	280	1.8	411	56.4
>= 40 Years	19	*	*	15	*	13	*	19	*
Unknown	11	*	*	8	*	7	*	12	*
Total	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9
Education									
< High School	427	6.3	8.7	374	12.6	315	2.9	439	43.5
High School	981	4.4	9.1	866	12.0	733	1.5	1,015	50.7
> High School	953	4.4	11.9	808	11.1	694	1.6	981	64.3
Unknown	1	*	*	1	*	1	*	1	*
Total	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data for health indicators, and data with errors for health and demographic indicators.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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Matern	al Weight G	ain and	Birth Ou	tcomes by	/ Select l	Health In	dicators	(2)		
	W	eight Gain	(3)	Birth Outcomes						
		< Ideal	> Ideal	Birthweight			Preterm		Full Term LBW	
					Low (4)	High (5)	Prete (6)	rm	Full Term (7)	
	Number	%	%	Number	%	%	Number	%	Number	%
Prepregnancy BMI										
Underweight	230	24.3	31.3	232	7.3	3.4	198	14.1	165	3.0
Normal Weight	986	17.0	42.8	1,008	6.4	7.9	892	11.7	761	2.1
Overweight	332	6.3	72.0	344	4.1	9.9	306	10.5	266	1.1
Obese	617	10.4	55.1	646	4.5	15.0	589	11.2	501	1.4
Weight Gain										
< Ideal	-	_	_	271	12.9	4.1	240	19.6	188	5.3
Ideal	-	_	_	699	4.7	7.4	622	11.4	533	0.9
> Ideal	-	_	_	956	3.1	13.8	864	8.9	757	1.2
Smoking During Pregnancy										-
Smokers	497	15.5	49.3	514	6.6	4.9	514	12.5	442	2.7
Non-Smokers	1,242	12.9	50.6	1,287	4.6	12.6	1,281	11.1	1,104	1.4

- (1) Reporting period is January 1 through December 31.
- (2) Excludes records with unknown data or errors.
- (3) Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).
- (4) <2500 g.
- (5) >4000 g.
- (6) <37 weeks gestation.
- (7) 37 or more weeks gestation and <2500 g.
- \* Percentages are not calculated if <100 records are available for analysis after exclusions.



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	Summary of Trends in Racial and Ethnic Distribution (2)												
Year	Number Included in Analysis	White, Not Hispanic	Black, Not Hispanic %	Hispanic %	American Indian/Alaskan Native	Asian/Pacific Islander %	All Other/Unknown						
		70	/0	/0	%	/6	/6						
2004	3,242	74.2	2.8	4.3	17.5	1.2	0.0						
2003	3,668	73.2	3.0	5.2	17.6	1.0	0.0						
2002	3,628	75.2	2.4	4.0	17.4	1.0	0.0						
2001	2,671	73.6	3.3	4.5	17.3	1.3	0.0						
2000	3,556	76.1	2.5	4.0	16.0	1.3	0.0						
1999	3,567	77.5	2.7	4.0	14.6	1.2	0.0						
1998	3,773	77.4	2.6	4.7	14.4	0.9	0.0						
1997	3,947	78.2	2.3	4.2	14.0	1.3	0.0						
1996	2,573	79.4	2.3	3.6	13.0	1.7	0.0						
1995	3,633	81.8	1.9	3.5	11.3	1.4	0.0						
1994	0	*	*	*	*	*	*						
1993	2,573	80.4	1.6	2.7	13.8	1.5	0.0						
1992	988	78.7	1.9	2.7	15.5	1.1	0.0						
1991	1,504	80.6	1.3	3.1	14.2	0.8	0.0						
1990	2,784	81.0	1.5	3.2	13.3	1.0	0.0						
1989	1,387	78.2	1.6	2.6	16.3	1.4	0.0						

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# **Summary of Trends in Age Distribution**

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		Sumr	nary of Trend	s in Age Dist	ribution (2)			
Year	Number Included in Analysis	< 15 Years %	15 - 17 Years %	18 - 19 Years %	20 - 29 Years %	30 - 39 Years %	>= 40 Years %	Unknown %
2004	3,242	0.2	4.3	13.2	64.8	16.1	0.9	0.4
2003	3,668	0.2	4.7	14.4	64.6	14.7	1.0	0.4
2002	3,628	0.2	5.1	15.4	63.2	14.9	0.9	0.3
2001	2,671	0.2	6.1	15.7	62.0	14.6	0.9	0.4
2000	3,556	0.1	5.8	15.9	60.5	16.0	1.0	0.6
1999	3,567	0.3	5.3	14.5	62.2	16.3	0.9	0.4
1998	3,773	0.3	6.5	13.8	62.1	15.7	1.0	0.6
1997	3,947	0.3	5.7	13.9	62.5	15.9	0.9	0.8
1996	2,573	0.3	5.6	14.7	61.3	16.6	0.7	0.8
1995	3,633	0.5	6.1	13.8	62.8	15.3	0.9	0.7
1994	0	*	*	*	*	*	*	*
1993	2,573	0.3	7.0	14.5	60.5	16.3	0.8	0.5
1992	988	0.3	6.0	16.7	59.9	16.1	0.3	0.7
1991	1,504	0.5	4.9	15.0	62.4	15.7	0.7	0.8
1990	2,784	0.1	5.6	14.4	64.0	14.5	0.6	0.8
1989	1,387	0.1	5.6	13.8	62.5	16.7	0.6	0.7

<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

**Summary of Trends in Maternal Health Indicators** 

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		Summa	ry of Tre	nds in Ma	aternal	Health In	ndicators	(2)			
Year	Pro	epregnancy (3)	ВМІ	,	Weight Ga (4)	ain		(Low	emia Hb/Hct) (5)		
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trii	mester	Postpartum		
	Number	%	%	Number	%	%	Number	%	Number	%	
2004	3,068	10.3	45.0	2,167	14.4	49.5	419	24.6	1,886	30.4	
2003	3,478	11.2	43.1	2,457	15.0	48.4	472	21.6	2,133	25.7	
2002	3,428	12.0	42.2	2,401	14.0	49.3	487	24.6	2,034	29.2	
2001	2,538	11.5	41.7	1,727	14.6	48.2	311	20.3	1,473	31.0	
2000	3,371	12.5	42.6	2,305	14.1	48.3	438	20.8	1,897	31.8	
1999	3,318	13.3	40.4	2,213	17.2	44.8	451	22.2	1,954	26.7	
1998	3,406	13.4	39.1	2,353	17.3	45.7	455	15.4	2,059	24.5	
1997	3,044	13.3	38.1	2,428	17.1	45.5	446	13.5	2,440	13.3	
1996	1,936	14.6	35.5	1,542	15.9	46.0	243	12.3	1,463	15.9	
1995	2,810	14.7	34.9	2,356	18.5	43.5	460	15.4	2,275	15.9	
1994	0	*	*	0	*	*	0	*	0	*	
1993	2,012	16.0	32.9	1,760	23.1	41.6	330	16.1	1,653	13.7	
1992	788	15.7	30.2	684	20.3	39.8	144	18.1	614	12.9	
1991	1,169	16.3	28.5	989	22.4	39.6	172	15.7	696	13.1	
1990	2,038	15.2	29.9	1,703	20.4	41.9	341	20.8	1,309	13.1	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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#### **Summary of Trends in Maternal Health Indicators**

		Summa	ry of Trei	nds in Ma	aternal	Health Ir	dicators	(2)			
Year	Pr	epregnancy (3)	ВМІ	,	Weight Ga (4)	in	Anemia (Low Hb/Hct) (5)				
		Under- weight	Over- weight		< Ideal	> Ideal	3rd Trii	mester	Postp	artum	
	Number	%	%	Number	%	%	Number	%	Number	%	
1989	1,062	16.0	28.6	868	23.0	38.1	221	20.8	751	13.4	



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 CDC MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

Percentages are not calculated if <100 records are available for analysis after exclusions.

Table 17C 2004 Pregnancy Nutrition Surveillance (1) North Dakota

**Summary of Trends in Maternal Behavioral Indicators** 

Year	1	Medical Ca	are	WIC Enrollment  1st Trimester		
	1st T	rimester	No Care			
	Number	%	%	Number	%	
2004	2,782	87.0	1.9	2,834	42.7	
2003	3,131	86.1	1.2	3,221	41.2	
2002	3,088	83.6	3.0	3,151	41.0	
2001	2,222	83.4	2.4	2,341	41.9	
2000	3,019	83.5	3.5	3,093	40.1	
1999	3,072	82.6	5.3	3,084	40.0	
1998	3,256	73.6	16.2	3,244	40.1	
1997	3,380	70.9	18.3	2,895	5.4	
1996	2,173	73.4	15.8	1,852	0.8	
1995	3,110	71.9	16.8	2,568	0.4	
1994	0	*	*	0	*	
1993	2,268	66.1	21.3	1,850	0.5	
1992	882	68.5	18.1	718	0.0	
1991	1,297	64.8	20.7	1,023	0.9	
1990	2,335	63.4	22.8	1,801	0.4	
1989	1,233	62.8	23.5	928	0.0	



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<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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### Table 18C 2004 Pregnancy Nutrition Surveillance North Dakota (1) **Summary of Trends in Smoking Indicators**

		Sumi	mary of T	rends in	Smoking	g Indicat	ors <sup>(2)</sup>			
Year		Smo	oking		Quit Sr By First I			Smoking in	n Household	
	3 Mo Prior to P			Last 3 Months of Pregnancy		Stayed Off ttes (3)	Prer	ıatal	Postpartum	
	Number	%	Number	%	Number	%	Number	%	Number	%
2004	2,901	47.7	2,452	25.1	894	36.5	2,511	32.8	2,376	28.1
2003	3,338	47.8	2,815	26.1	1,039	34.9	2,863	33.5	2,765	27.5
2002	3,253	49.2	2,772	27.5	1,012	32.3	2,761	33.1	2,737	28.6
2001	2,397	49.4	1,983	26.0	707	37.8	2,043	35.0	1,950	30.4
2000	3,180	47.8	2,654	27.2	917	33.9	2,635	33.9	2,609	30.1
1999	3,174	46.6	2,630	26.8	909	30.7	2,584	35.0	2,516	30.0
1998	3,322	47.0	2,842	26.6	979	34.0	2,756	36.9	2,647	31.6
1997	3,484	45.2	2,982	27.6	987	30.1	2,963	35.3	2,922	31.6
1996	2,288	42.4	1,851	25.0	561	31.6	1,897	35.8	1,813	30.2
1995	3,174	42.8	2,786	26.1	850	30.7	2,628	37.0	2,724	32.2
1994	0	*	0	*	0	*	0	*	0	*
1993	2,077	43.3	2,001	28.4	215	0.0	1,172	57.8	1,392	47.8
1992	739	47.1	770	30.3	98	*	455	61.8	431	56.8
1991	1,131	40.8	1,103	27.7	151	0.0	1,085	34.2	1,094	31.6
1990	2,052	41.7	1,986	29.3	254	0.0	1,994	33.9	1,973	31.2
1989	917	44.5	1,031	32.1	154	0.0	894	40.0	1,030	33.6



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 19C 2004 Pregnancy Nutrition Surveillance North Dakota Summary of Trends in Infant Health Indicators

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	Su	mmary o	f Trends	s in Infan	t Health	n Indicator	's <sup>(2)</sup>		
Year		Birthweight		Prete (5		Full Term (6)	ı LBW	Ever Br	eastfed
		Low (3)	High (4)						
	Number	%	%	Number	%	Number	%	Number	%
2004	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9
2003	2,758	6.9	9.8	2,328	10.6	2,044	2.1	2,795	54.8
2002	2,695	7.1	9.6	2,284	11.7	1,952	3.4	2,777	54.6
2001	1,941	6.1	10.1	1,666	10.1	1,450	2.3	2,012	52.6
2000	2,490	6.4	10.7	2,237	11.8	1,838	2.1	2,672	54.4
1999	2,508	6.7	11.0	2,204	11.3	1,811	2.1	2,695	50.8
1998	2,728	6.7	11.9	2,387	10.9	1,979	2.1	2,940	49.6
1997	2,883	6.1	12.1	2,493	9.5	2,113	2.1	3,080	47.8
1996	1,688	5.5	12.0	1,453	9.9	1,253	2.2	1,764	49.7
1995	2,507	5.8	11.2	2,110	10.0	1,799	2.1	2,640	46.4
1994	0	*	*	0	*	0	*	0	*
1993	1,972	5.9	12.1	1,635	9.5	1,406	2.5	943	100.0
1992	787	4.8	13.5	650	9.1	570	2.3	367	100.0
1991	1,082	5.7	10.3	790	8.9	698	3.2	428	99.8

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 19C 2004 Pregnancy Nutrition Surveillance North Dakota Summary of Trends in Infant Health Indicators

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	Su	mmary o	f Trends	s in Infant	Health	n Indicator	's <sup>(2)</sup>		
Year		Birthweight		Prete (5)	rm	Full Term (6)	ı LBW	Ever B	reastfed
		Low (3)	High (4)						
	Number	%	%	Number	%	Number	%	Number	%
1990	1,919	5.7	13.5	1,458	7.7	1,304	3.0	774	100.0
1989	1,016	6.1	13.3	781	7.9	696	3.3	385	100.0



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes records with unknown data or errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt;4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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	Summa	ry of Tre	ends in	Materna	l Health	Indicato	rs by Ra	ce/Ethnic	ity <sup>(2)</sup>			
Race/Ethnicity and Year		Prepregnancy BMI (3)				Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under- weight		Over- weight		< Ideal	> Ideal	3rd Tri	mester	Postpartum		
		Number	%	%	Number	%	%	Number	%	Number	%	
White, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	2,267 2,545 2,575 1,863 2,557 2,575 2,626 2,400 1,553 2,330	10.2 11.4 12.5 12.3 13.4 14.4 13.8 13.9 15.0	45.1 41.8 41.1 40.2 41.0 39.0 37.9 36.8 35.2 34.7	1,640 1,840 1,845 1,287 1,783 1,729 1,862 1,925 1,238 1,979	14.1 14.2 14.1 13.9 13.6 17.1 16.6 15.9 15.3 17.4	48.8 48.2 49.2 47.7 46.9 44.2 45.9 46.1 46.0 43.5	299 332 351 218 346 360 360 372 200 381	21.7 16.9 22.8 18.3 19.9 20.3 14.7 12.1 11.0 15.5	1,426 1,557 1,530 1,097 1,472 1,550 1,652 1,965 1,194 1,952	27.9 25.4 28.3 29.6 32.5 26.4 24.0 12.9 15.3 14.5	
Black, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	83 99 80 79 79 82 90 60 38 48	*     *     *     *     *     *     *     *     *     *	* * * * * * * * * * * * * *	51 71 52 59 44 53 55 48 31 37	* * * * * * * * * * * *	*     *     *     *     *     *     *     *     *     *     *     *	18 15 14 10 3 6 7 13 4	* * * * * * * * * * * * * * *	51 70 50 46 40 52 46 40 31 31	* * * * * * * * *	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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S	umma	ry of Tr	ends in	Materna	l Health	Indicato	rs by Ra	ce/Ethnic	ity <sup>(2)</sup>			
Race/Ethnicity and Year		Prepregnancy BMI (3)				Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
			Under- weight	Over- weight		< Ideal	> Ideal	3rd Tri	mester	Postp	oartum	
		Number	%	%	Number	%	%	Number	%	Number	%	
Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	133 176 136 115 137 133 159 114 55 75	12.0 11.9 15.4 7.8 8.8 9.0 9.4 14.9	.9 51.7 6.4 40.4 7.8 40.0 8.8 50.4 9.0 44.4 9.4 44.0 9.9 47.4 * *	65 101 68 55 68 70 94 87 41 62	* 17.8  *  *  *  *  *  *  *  *	* 46.5 * * * * * * * * * *	18 22 16 16 15 16 25 20 6	* * * * * * * * * * * * *	58 85 54 45 46 58 73 83 38 57	*     *     *     *     *     *     *     *     *	
American Indian/Alaskan Native	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	549 622 602 448 551 492 502 437 258 323	9.8 9.8 9.1 10.0 8.5 8.9 11.4 9.2 9.7	49.2 47.7 49.0 52.0 50.3 49.2 45.4 44.6 41.5 41.2	387 419 406 300 372 338 325 340 204 252	12.4 16.2 12.3 12.0 13.2 15.7 19.1 19.4 20.1 23.0	56.8 52.0 51.5 54.0 57.0 47.3 48.9 46.8 50.0 48.0	77 100 97 63 65 65 61 40 26	* 34.0  *  *  *  *  *  *  *  *  *	340 400 373 265 310 278 268 323 172 212	35.6 25.0 28.7 30.6 28.4 25.2 23.1 11.1 14.0 23.6	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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	Summa	ry of Tr	ends in	Materna	l Health	Indicato	rs by Ra	ce/Ethnici	<b>ty</b> (2)			
Race/Ethnicity and Year		Prepregnancy BMI (3)				Weight Gain (4)			Anemia (Low Hb/Hct) (5)			
		Under- weight		Over- weight		< Ideal	> Ideal	3rd Trin	nester	Postpartum		
		Number	%	%	Number	%	%	Number	%	Number	%	
Asian/Pacific Islander	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	36 36 35 33 47 36 29 33 32 34	*     *     *     *     *     *     *     *     *	* * * * * * * * * * * * * * *	24 26 30 26 38 23 17 28 28 26	* * * * * * * * * * * *	*     *     *     *     *     *     *     *	7 3 9 4 9 4 2 1 7	* * * * * * * * * * * *	11 21 27 20 29 16 20 29 28 23	* * * * * * * * * * * *	
All Other/Unknown	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	0 0 0 0 0 0 0	*     *     *     *     *     *     *     *     *     *	* * * * * * * * * * * * *	0 0 0 0 0 0 0	* * * * * * * * * * * * *	* * * * * * * * * * *	0 0 0 0 0 0 0 0	* * * * * * * * * * * * *	0 0 0 0 0 0 0 0	* * * * * * * * * *	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# Table 20C 2004 Pregnancy Nutrition Surveillance (1)

# **North Dakota**

Summary of Trends in Maternal Health Indicators by Race/Ethnicity

Race/Ethnicity and Year		nnicity and Year Prepregnancy E		/ BMI		Weight Ga (4)	ain	Anemia (Low Hb/Hct) (5)			
			Under- weight			< Ideal	> Ideal	3rd Trir	nester	Postpartum	
		Number	%	%	Number	%	%	Number	%	Number	%
Total All Race/Ethnic Groups	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	3,068 3,478 3,428 2,538 3,371 3,318 3,406 3,044 1,936 2,810	10.3 11.2 12.0 11.5 12.5 13.3 13.4 13.3 14.6	45.0 43.1 42.2 41.7 42.6 40.4 39.1 38.1 35.5 34.9	2,167 2,457 2,401 1,727 2,305 2,213 2,353 2,428 1,542 2,356	14.4 15.0 14.0 14.6 14.1 17.2 17.3 17.1 15.9 18.5	49.5 48.4 49.3 48.2 48.3 44.8 45.7 45.5 46.0 43.5	419 472 487 311 438 451 455 446 243 460	24.6 21.6 24.6 20.3 20.8 22.2 15.4 13.5 12.3	1,886 2,133 2,034 1,473 1,897 1,954 2,059 2,440 1,463 2,275	30.4 25.7 29.2 31.0 31.8 26.7 24.5 13.3 15.9



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<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight (BMI <19.8), overweight (BMI >26.0; includes overweight and obese women).

<sup>(4)</sup> Based on 1990 IOM report, "Nutrition During Pregnancy": underweight prepregnancy (ideal weight gain = 28 to 40 lbs), normal weight prepregnancy (ideal weight gain = 25 to 35 lbs), overweight prepregnancy (ideal weight gain = 15 to 25 lbs), obese prepregnancy (ideal weight gain = 15 to 25 lbs).

<sup>(5)</sup> Based on 1990 MMWR, "Recommendations to Prevent and Control Iron Deficiency in the United States"; adjusted for altitude and smoking.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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#### Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in M	/laternal	Behavior	ral Indic	cators by F	Race/Ethr	nicity (2)
Race/Ethnicity and Year		M	edical Ca	ire	WIC En	rollment
		1st Tri	mester	No Care	1st Trir	mester
		Number	%	%	Number	%
White, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	2,095 2,329 2,370 1,659 2,334 2,418 2,568 2,681 1,739 2,585	90.0 88.3 85.8 86.1 85.0 84.1 74.4 72.4 74.7	1.6 1.1 3.0 2.1 3.3 5.6 15.8 18.4 15.9 16.9	2,079 2,326 2,333 1,698 2,313 2,367 2,493 2,261 1,469 2,121	42.9 41.6 41.0 42.0 39.8 38.9 39.9 5.7 0.9 0.4
Black, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	72 88 69 76 68 81 82 70 48 53	* * * * * * * * * * *	* * * * * * * * * *	83 103 80 77 78 81 84 63 38 41	* 32.0  * * * * * * * *

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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#### Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in Ma	aternal	Behavio	ral Indic	cators by F	Race/Ethr	nicity (2)	
Race/Ethnicity and Year		М	edical Ca	re	WIC Enrollment		
		1st Tri	mester	No Care	1st Trir	nester	
		Number	%	%	Number	%	
Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	95 135 96 77 91 102 132 127 63 82	* 82.2 * * * 83.3 66.7 63.8 *	* 2.2 * * * 3.9 21.2 23.6 * *	124 165 127 112 126 124 156 114 57 64	46.8 41.8 42.5 33.0 40.5 38.7 33.3 2.6	
American Indian/Alaskan Native	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	488 549 518 380 481 438 444 464 285 349	74.2 77.8 73.9 73.9 77.1 75.3 71.4 65.1 66.7 66.8	3.5 1.6 3.5 3.4 3.7 4.1 14.2 15.5 14.7 15.8	518 596 577 427 535 478 482 425 254 313	42.3 40.8 41.6 43.6 41.7 43.3 41.1 3.5 0.0 0.0	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

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#### Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in	Maternal	Behaviora	al Indi	cators by F	Race/Ethn	icity <sup>(2)</sup>	
Race/Ethnicity and Year		Ме	dical Ca	are	WIC Enrollment		
		1st Trim	nester	No Care	1st Trim	nester	
		Number	%	%	Number	%	
Asian/Pacific Islander	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	32 30 35 30 45 33 30 38 38 40	* * * * * * * * * *	* * * * * * * *	30 31 34 27 41 34 29 32 34 29	*     *     *     *     *     *     *     *	
All Other/Unknown	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	0 0 0 0 0 0 0 0	* * * * * * * * * * * *	*  *  *  *  *  *  *  *  *  *	0 0 0 0 0 0 0 0	*     *     *     *     *     *     *     *     *	

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

Summary of Trends in Maternal Behavioral Indicators by Race/Ethnicity

Summary of Trends in M	laternal	Behavior	al Indic	cators by F	Race/Ethn	icity (2)
Race/Ethnicity and Year		М	edical Ca	WIC Enr	ollment	
		1st Trir	mester	No Care	1st Trin	nester
		Number	%	%	Number	%
Total All Race/Ethnic Groups	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	2,782 3,131 3,088 2,222 3,019 3,072 3,256 3,380 2,173 3,110	87.0 86.1 83.6 83.4 83.5 82.6 73.6 70.9 73.4 71.9	1.9 1.2 3.0 2.4 3.5 5.3 16.2 18.3 15.8 16.8	2,834 3,221 3,151 2,341 3,093 3,084 3,244 2,895 1,852 2,568	42.7 41.2 41.0 41.9 40.1 40.0 40.1 5.4 0.8 0.4



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<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# North Dakota

Summary of Trends in Smoking Indicators by Race/Ethnicity

	Sur	nmary o	rirends	s in Smok	king indi	cators by	race/E	innicity	(2)		
Race/Ethnicity and Year			Smo	king		Quit Smoking By First Prenatal Visit and Stayed Off Cigarettes (3)		Smoking in Household			
		3 Mo Prior to P		Last 3 I of Preg				Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
White, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	2,153 2,424 2,429 1,748 2,406 2,448 2,560 2,724 1,808 2,586	46.7 47.3 47.1 48.8 46.8 45.3 45.7 43.5 41.4 42.1	1,862 2,101 2,134 1,472 2,059 2,063 2,246 2,370 1,483 2,337	23.7 25.6 25.9 25.3 25.9 24.9 25.1 25.6 23.9 25.1	639 757 720 504 657 675 732 722 429 687	36.9 35.1 33.6 38.3 35.5 31.7 36.3 32.7 31.9 31.6	1,828 2,049 2,023 1,478 1,947 1,960 2,095 2,270 1,488 2,121	32.0 33.5 32.9 35.5 34.2 34.2 35.8 34.2 35.4 37.5	1,795 2,058 2,103 1,448 2,025 1,969 2,090 2,323 1,454 2,283	29.4 28.6 27.7 31.4 31.1 30.5 31.4 31.6 30.8
Black, Not Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	79 100 79 81 80 85 90 79 51 61	* 16.0  *  *  *  *  *  *  *  *  *  *  *	65 85 64 72 59 72 69 62 39 42	*     *     *     *     *     *     *     *     *	8 6 9 10 12 9 11 10 5 7	* * * * * * * * * * * * *	74 91 73 66 68 71 73 70 39 49	*     *     *     *     *     *     *     *     *	64 85 64 70 54 67 64 59 39	* * * * * * * * * * * *

<sup>(1)</sup> Reporting period is January 1 through December 31.



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<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# North Dakota

Summary of Trends in Smoking Indicators by Race/Ethnicity

Race/Ethnicity and Year			Smo	king		Quit Sr By First I		Smoking in Household			
		3 Mo Prior to P		Last 3 I of Preg		Visit and Stayed Off Cigarettes (3)		Prenatal		Postpartum	
		Number	%								
Hispanic	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	122 168 127 105 124 123 148 132 82 109	21.3 17.9 26.8 21.0 22.6 23.6 23.6 23.7 *	69 119 80 64 78 83 114 107 53 72	* 12.6  * * 4.4 12.1  *	14 13 20 9 13 15 18 18 10 6	* * * * * * * * * * * *	112 142 109 88 103 99 124 122 67 90	33.0 23.9 21.1 * 26.2 * 33.9 24.6	68 118 80 63 76 77 97 102 50	* 18.6 * * * * * 18.6
American Indian/Alaskan Native	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	517 613 587 432 529 480 497 502 305 374	63.4 64.1 67.3 66.7 64.7 66.0 66.2 66.5 60.3 61.2	427 481 462 347 416 381 390 409 241 302	37.5 36.6 41.3 37.2 42.1 45.4 44.9 48.2 40.7 40.1	228 256 255 182 232 206 216 227 114 145	32.0 32.8 25.9 34.1 25.4 25.2 24.1 18.1 27.2 25.5	476 551 526 388 482 426 441 458 267 332	39.3 40.7 38.4 38.1 38.2 41.8 46.9 46.7 39.7 43.4	422 475 459 343 412 373 374 404 236 301	27.5 28.6 36.2 30.3 29.9 29.0 35.0 38.4 31.8 34.6

<sup>(1)</sup> Reporting period is January 1 through December 31.



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<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

Percentages are not calculated if <100 records are available for analysis after exclusions.

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### Summary of Trends in Smoking Indicators by Race/Ethnicity

	Sur	mmary of	Trends	s in Smok	ing Ind	icators by	Race/E	thnicity (2	2)		
Race/Ethnicity and Year			Smo	oking		Quit Sm By First P	Prenatal	Smoking in Household			
		3 Mon Prior to Pre		Last 3 M of Pregr		Visit and Stayed Off Cigarettes (3)		Prenatal		Postpartum	
		Number	%	Number	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2004 2003	30 33	*	29 29	*	5 7	* *	21 30	*	27 29	*
	2002 2001 2000 1999 1998	31 31 41 38 27	*     *     *     *     *	32 28 42 31 23	*	8 2 3 4 2	* * * * *	30 23 35 28 23	* * * * *	31 26 42 30 22	* * * *
	1997 1996 1995	47 42 44	* *	34 35 33	* * *	10 3 5	* *	43 36 36	* *	34 34 31	* *
All Other/Unknown	2004 2003 2002 2001 2000 1999 1998 1997	0 0 0 0 0 0	*     *     *     *     *     *     *     *     *	0 0 0 0 0 0 0	*     *     *     *     *     *     *     *     *     *	0 0 0 0 0 0	* * * * * * * *	0 0 0 0 0 0 0	* * * * * * * *	0 0 0 0 0 0	* * * * * * *
	1996 1995	0	*	0	*	0	*	0	*	0	*

<sup>(1)</sup> Reporting period is January 1 through December 31.



<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.

# 2004 Pregnancy Nutrition Surveillance North Dakota

Summary of Trends in Smoking Indicators by Race/Ethnicity

	Sur	nmary o	Trends	in Smok	ing Indi	cators by	Race/E	thnicity	(2)		
Race/Ethnicity and Year			Smo	king		Quit Smoking By First Prenatal			Smoking in	Household	
		3 Months Prior to Pregnancy		Last 3 Months of Pregnancy		Visit and Stayed Off Cigarettes (3)		Prenatal		Postpa	artum
		Number % Number %		%	Number	%	Number	%	Number	%	
Total All Race/Ethnic Groups	2004 2003 2002 2001 2000 1999 1998 1997 1996 1995	2,901 3,338 3,253 2,397 3,180 3,174 3,322 3,484 2,288 3,174	47.7 47.8 49.2 49.4 47.8 46.6 47.0 45.2 42.4 42.8	2,452 2,815 2,772 1,983 2,654 2,630 2,842 2,982 1,851 2,786	25.1 26.1 27.5 26.0 27.2 26.8 26.6 27.6 25.0 26.1	894 1,039 1,012 707 917 909 979 987 561 850	36.5 34.9 32.3 37.8 33.9 30.7 34.0 30.1 31.6 30.7	2,511 2,863 2,761 2,043 2,635 2,584 2,756 2,963 1,897 2,628	32.8 33.5 33.1 35.0 33.9 35.0 36.9 35.3 35.8 37.0	2,376 2,765 2,737 1,950 2,609 2,516 2,647 2,922 1,813 2,724	28.1 27.5 28.6 30.4 30.1 30.0 31.6 31.6 30.2 32.2



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<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>(3)</sup> Among women who smoked 3 months prior to pregnancy.

\* Percentages are not calculated if <100 records are available for analysis after exclusions.

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Race/Ethnicity and Year		Birthweight			Preterm		Full Term LBW		Ever Breastfed	
·			Low (3)	High (4)	(5)	)	(6)			
		Number	%	%	Number	%	Number	%	Number	%
White, Not Hispanic	2004	1,861	5.6	9.9	1,600	11.7	1,361	1.8	1,917	57.2
	2003	2,096	7.0	9.2	1,749	10.6	1,540	2.1	2,121	57.5
	2002	2,101	6.9	8.8	1,774	11.4	1,516	3.2	2,167	57.
	2001	1,484	6.3	9.4	1,263	9.7	1,101	2.3	1,539	55.
	2000	1,952	6.5	9.8	1,738	11.9	1,414	1.9	2,107	57.
	1999	2,004	7.1	10.6	1,737	10.8	1,437	2.2	2,145	52.
	1998	2,156	7.0	11.0	1,871	10.7	1,555	2.1	2,324	51.
	1997	2,285	6.5	11.9	1,936	9.8	1,641	2.1	2,433	50.
	1996	1,356	5.3	11.6	1,139	9.3	1,003	2.3	1,397	53.
	1995	2,086	5.5	10.6	1,740	9.2	1,496	2.0	2,195	48.
Black, Not Hispanic	2004	63	*	*	58	*	53	*	65	*
	2003	77	*	*	72	*	64	*	78	*
	2002	66	*	*	60	*	51	*	69	*
	2001	67	*	*	56	*	53	*	69	*
	2000	57	*	*	49	*	43	*	62	*
	1999	63	*	*	60	*	45	*	75	*
	1998	62	*	*	58	*	38	*	74	*
	1997	50	*	*	57	*	41	*	65	*
	1996 1995	38 40	*	*	35 34	*	27 21	*	44 45	*

- (1) Reporting period is January 1 through December 31.
- (2) Excludes data with errors.
- (3) <2500 g.
- (4) >4000 g.
- (5) <37 weeks gestation.
- (6) 37 or more weeks gestation and <2500 g.
- \* Percentages are not calculated if <100 records are available for analysis after exclusions.



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	Summary	of Trend	ls in Infa	ant Heal	th Indica	tors by	Race/Ethi	nicity	(2)	
Race/Ethnicity and Yea	ar	В	irthweight		Preterm (5)		Full Term LBW (6)		Ever Breastfed	
			Low (3)	High (4)	(3)	1	(6)			
		Number	%	%	Number	%	Number	%	Number	%
Hispanic	2004	75	*	*	64	*	52	*	78	*
	2003	122	4.9	9.0	99	*	89	*	123	58.5
	2002	81	*	*	66	*	53	*	84	*
	2001	63	*	*	60	*	50	*	70	*
	2000	76	*	*	67	*	55	*	82	*
	1999	79	*	*	77	*	61	*	93	*
	1998	111	1.8	14.4	97	*	82	*	120	49.2
	1997	105	2.9	11.4	98	*	85	*	118	58.5
	1996	46	*	*	46	*	38	*	51	*
	1995	63	*	*	54	*	43	*	67	*
American Indian/Alask	an Native2004	337	5.9	13.6	309	12.6	263	1.9	348	34.8
	2003	438	6.8	14.6	387	11.4	333	2.1	447	36.0
	2002	417	7.2	14.9	356	12.6	307	3.6	427	36.8
	2001	303	5.9	14.9	268	12.3	231	2.6	308	34.7
	2000	365	6.0	16.4	349	12.3	295	2.4	379	32.7
	1999	335	4.5	16.1	308	14.0	252	2.0	353	31.2
	1998	372	5.4	17.5	338	10.7	287	2.4	394	34.0
	1997	406	4.4	14.0	372	8.6	321	1.9	426	28.6
	1996	216	5.6	16.7	206	11.2	164	1.8	238	24.4
	1995	291	4.1	16.5	264	12.1	222	1.8	305	24.6

- (1) Reporting period is January 1 through December 31.
- (2) Excludes data with errors.
- (3) <2500 g.
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- \* Percentages are not calculated if <100 records are available for analysis after exclusions.



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	Summary	of Trend	ls in Infa	ant Heal	th Indicat	ors by	Race/Ethi	nicity	(2)	
Race/Ethnicity and Year		Birthweight			Preterm (5)		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(3)		(6)			
		Number	%	%	Number	%	Number	%	Number	%
Asian/Pacific Islander	2004	26	*	*	18	*	14	*	28	*
	2003	25	*	*	21	*	18	*	26	*
	2002	30	*	*	28	*	25	*	30	*
	2001	24	*	*	19	*	15	*	26	*
	2000	40	*	*	34	*	31	*	42	*
	1999	27	*	*	22	*	16	*	29	*
	1998	27	*	*	23	*	17	*	28	*
	1997	37	*	*	30	*	25	*	38	*
	1996	32	*	*	27	*	21	*	34	*
	1995	26	*	*	18	*	17	*	27	*
All Other/Unknown	2004	0	*	*	0	*	0	*	0	*
	2003	0	*	*	0	*	0	*	0	*
	2002	0	*	*	0	*	0	*	0	*
	2001	0	*	*	0	*	0	*	0	*
	2000	0	*	*	0	*	0	*	0	*
	1999	0	*	*	0	*	0	*	0	*
	1998	0	*	*	0	*	0	*	0	*
	1997	0	*	*	0	*	0	*	0	*
	1996	0	*	*	0	*	0	*	0	*
	1995	1	*	*	0	*	0	*	1	*

- (1) Reporting period is January 1 through December 31.
- (2) Excludes data with errors.
- (3) <2500 g.
- (4) >4000 g.
- (5) <37 weeks gestation.
- (6) 37 or more weeks gestation and <2500 g.
- \* Percentages are not calculated if <100 records are available for analysis after exclusions.



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Su	mmary	of Trend	ls in Infa	ant Heal	th Indica	tors by	Race/Eth	nicity	(2)	
Race/Ethnicity and Year		Birthweight			Preterm		Full Term LBW		Ever Breastfed	
			Low (3)	High (4)	(5)	)	(6)			
		Number	%	%	Number	%	Number	%	Number	%
Total All Race/Ethnic Groups	2004	2,362	5.6	10.1	2,049	11.8	1,743	1.8	2,436	54.9
	2003 2002	2,758 2,695	6.9 7.1	9.8 9.6	2,328 2,284	10.6 11.7	2,044 1,952	2.1 3.4	2,795 2.777	54.8 54.6
	2001	1,941	6.1	10.1	1,666	10.1	1,450	2.3	2,012	52.6
	2000	2,490	6.4	10.7	2,237	11.8	1,838	2.1	2,672	54.4
	1999	2,508	6.7	11.0	2,204	11.3	1,811	2.1	2,695	50.8
	1998	2,728	6.7	11.9	2,387	10.9	1,979	2.1	2,940	49.6
	1997	2,883	6.1	12.1	2,493	9.5	2,113	2.1	3,080	47.8
	1996	1,688	5.5	12.0	1,453	9.9	1,253	2.2	1,764	49.7
	1995	2,507	5.8	11.2	2,110	10.0	1,799	2.1	2,640	46.4



<sup>(1)</sup> Reporting period is January 1 through December 31.

<sup>(2)</sup> Excludes data with errors.

<sup>(3) &</sup>lt;2500 g.

<sup>(4) &</sup>gt; 4000 g.

<sup>(5) &</sup>lt;37 weeks gestation.

<sup>(6) 37</sup> or more weeks gestation and <2500 g.

<sup>\*</sup> Percentages are not calculated if <100 records are available for analysis after exclusions.